DMC810GL

Multipurpose Controller
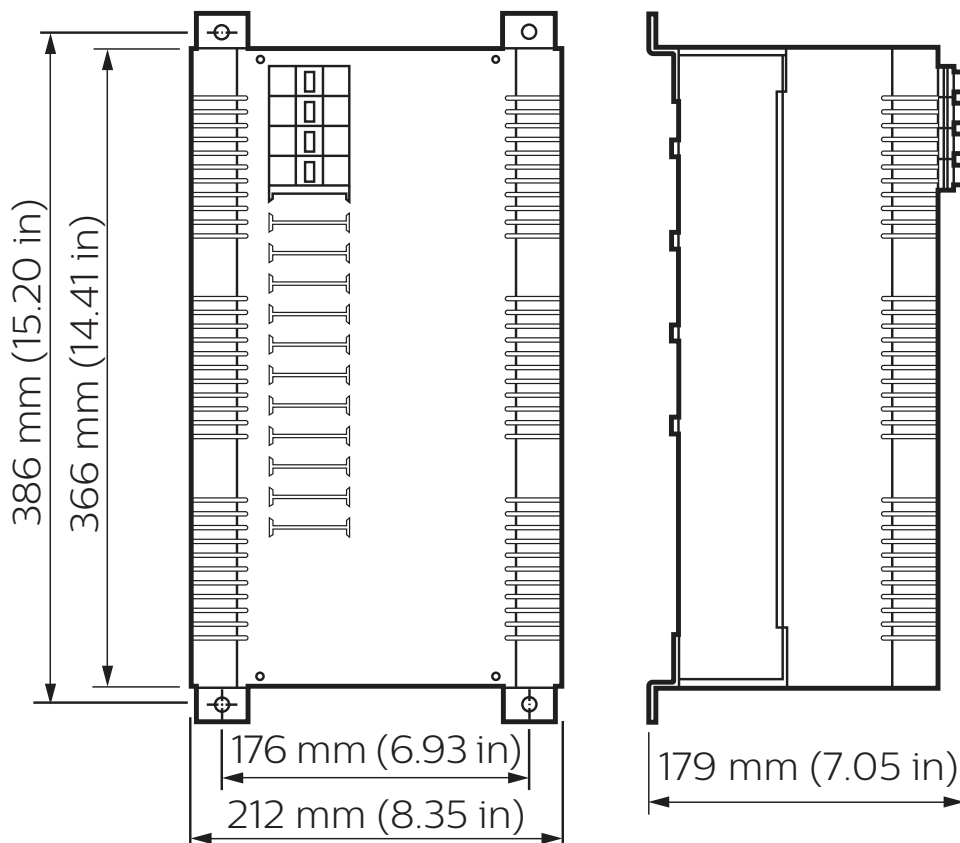
Combining leading edge and signal dimming control

The Philips Dynalite DMC810GL is an 8-channel controller that provides a combination of control technologies. The ability to control mixed load types from one device provides savings in initial capital costs, installation costs and a reduction in ongoing maintenance.

DMC810GL

Combining leading edge and signal dimming control

- **Four channels for control of dimmable loads –** Leading edge phase control for use with incandescent, neon, leading edge electronic and iron core transformers.

- **Four signal control outputs –** Selectable to 1-10 VDC, DSI and DALI broadcast for control of lamp drivers.

- **Four switched outputs –** Signal control outputs can operate in tandem with, or separately from, switched outputs.

- **Interference suppression –** Iron powder core toroidal choke lessens effects of interference from other equipment, such as transformers.

- **Naturally ventilated –** Requires no forced cooling or maintenance.

- **Diagnostic functionality –** Device Online/Offline status reporting.

- **User controls –** Incorporates service override switch – all channels to 100% and a diagnostic LED.

- **Options available –** Including an additional RS-485 DyNet/DMX512 port or earth leakage and overload protection on each channel.

Dimensions

386 mm (15.20 in)

366 mm (14.41 in)

176 mm (6.93 in)

212 mm (8.35 in)

179 mm (7.05 in)

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

DMC810GL
Multipurpose Controller

Electrical

Supply Type	Single phase
Supply Voltage	230 VAC ±14%
Supply Current	40 A
Outputs	4 x leading edge dimming 4 x switched
Overload Protection	4 x 10 A single-pole thermal magnetic (6 kA surge)
Regulating Device	Triac (40 A nominal, 600 V, 400 A surge)
Interference Suppression	Iron powder toroidal choke
DyNet Load Voltage	12 VDC
DyNet Load Current	200 mA
Overvoltage Category	III

Control

Serial Ports	1 x RS-485
Supported Protocols	DyNet DMX Rx
DMX Rx Channels	8
Control Channel Outputs	4 x signal dimming control (DALI Broadcast, DSI, 1–10V)
User Controls	1 x service switch 8 x DyNet address DIP switch
Indicators	1 x service LED

Physical

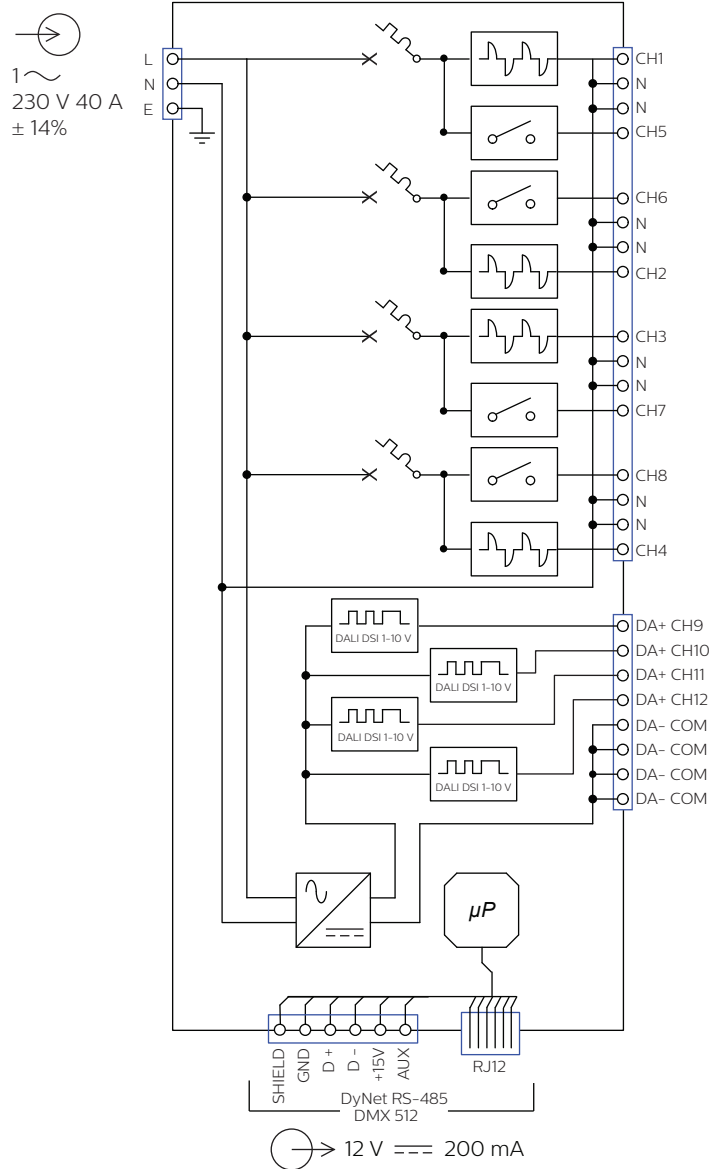|	
Dimensions (H x W x D)	386 x 212 x 179 mm (15.20 x 8.35 x 7.05 in)
Packed Weight	7.50 kg (16.53 lb)
Construction	Alloy / Steel wall mount case with epoxy finish
Serial Ports	1 x RJ12 1 x 6-way pluggable screw terminal
Serial Port Conductor Size	2.5 mm^2 (#12 AWG) (max)
Supply Terminals	2 x screw terminal Line, Neutral
Supply Terminal Conductor Size	10 mm^2 (#6 AWG) (max)
Phase Control Terminals	16 x screw terminal
Phase Control Terminal Conductor Size	5 mm^2 (#10 AWG) (max)
Signal Dimming Terminals	8 x screw terminal
Signal Dimming Terminal Conductor Size	2.5 mm^2 (#12 AWG) (max)
Earth Bar Terminals	5 x screw terminal
Earth Bar Conductor Size	16 mm^2 (#6 AWG) (max)

Environment

Operating Temperature	0° to 40°C ambient (32° to 104°F)
Storage/Transport Temperature	–25° to 70°C ambient (–13° to 158°F)
Humidity	0 to 90% non-condensing
IEC Pollution Degree	II

Compliance

Certification	CE, RCM, RoHS

Electrical

1 〜
230 V 40 A
± 14%

Control Channel Ratings

DALI/DSI	Channel	Device
Output Voltage	12 VDC	
Guaranteed Current	128 mA	
Maximum Current	250 mA	
Maximum Drivers	64	200
Insulation	Basic	

1–10 V	Channel
Current	sink 50 mA source 50 mA

Output Channel Ratings

Load Type	Maximum Rating per Output
	CH5–CH8
General Use	10 A, 240 VAC
Incandescent	5 A, 240 VAC
Magnetic with Halogen	2 A, 240 VAC
Electronic Driver	3 A, 240 VAC
Inrush Current	165 A

Maximum Group Load	CH1 & CH5	CH2 & CH6	CH3 & CH7	CH4 & CH8	DEVICE
	10 A	10 A	10 A	10 A	40 A

Ordering Code

Product	Philips 12NC
DMC810GL	913703028009
DMC810GL–A (Extra DyNet/DMX port)	913703028709
DMC810GL–RCBO (Earth leakage/overload protection on each channel)	913703028509
DMC810GL–A–RCBO (Dual port and RCBO)	913703028909